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Highly distributed MC production for CMS: operational experience with 7 regions for optimal resource usage

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Abstract

The simulation of proton-proton collisions for the CMS experiment is primarily carried out on the second tier of the CMS computing infrastructure. Half of the Tier-2 sites of CMS are reserved for central Monte Carlo production while the other half is available for user analysis. This talk summarizes the large throughput of the MC production operation during the data taking period 2010. It will discuss latencies and efficiencies of the various types of MC production workflows and presents the operational procedures to optimally use the available resources. It will also present the operational model of CMS to include opportunistic resources into the central production operation like larger Tier-3 sites.

Files

Bibliography

CMS groups

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